ROAD ANGEL™ Vantage

Product Manual & User Guide

V0110

Thank you for choosing ROAD ANGEL Vantage

As our roads become busier, more congested and more regulated, staying alert to road and traffic conditions is a challenge to everyone. Even the most conscientious driver can have a momentary lapse of concentration that could easily lead to an accident or a fine and points.

ROAD ANGEL Vantage is specially designed to be a simple-to-use addition to any vehicle, to alert and warn you in advance of known danger areas. In the comprehensive ROAD ANGEL Vantage database, which is automatically updated whilst you drive, are stored Police, Local Authority and Ministry of Transport designated danger spots, including accident blackspots and safety camera locations.

Using the latest Global Positioning Satellite (GPS) technology, ROAD ANGEL Vantage compares your position with the known danger spot locations and gives you an audible and visual warning as you approach them. An accurate GPS speedometer in the display gives you time to adjust your driving to the approaching danger.

With over 250,000 miles of road around the UK, knowing the speed limit is often guesswork. Vantage also has an onboard database of road speed limits, so you will know what the speed limit is, at a glance.

The safety of you and your passengers is our prime consideration, and we trust that for all the miles you drive, your ROAD ANGEL Vantage will enhance the safety and enjoyment of your journey. Join other ROAD ANGEL Vantage users in guarding your life and livelihood.

We are pleased to have you as a valued customer and hope you will be delighted with your fully integrated ROAD ANGEL Vantage. Having listened to our customers we think the new features will make this product your perfect driving companion.

Graham Mackie

Managing Director

Road Angel Group Ltd

QUICK START GUIDE

1. Charge the unit's internal battery using the mains charger. For optimum charging, ensure that the unit is switched off (charging usually takes about 4 hours - see page **Error! Bookmark not defined.**). The charging indicator LED is green when the unit is fully charged.

2. Register the unit and purchase subscriptions online (see page **Error! Bookmark not defined.**) at: www.roadangelgroup.com.

3. Switch the unit on. Look for white bars to indicate GSM* signal. Move the unit to another location if the signal is low.

If there is no signal, the GSM bars will appear with a line through them, as shown on the right.

4. Wait until the white bars change to green (this may take up to 24 hours after registration). This indicates that the unit has received a SIM update and now has GPRS* connectivity.

5. The Communicating icon indicates that the unit is updating its database of camera locations and accident blackspots.

6. Your ROAD ANGEL Vantage is now *connected* and ready for use. Disconnect unit from mains charger and mount in vehicle (see page **Error! Bookmark not defined.**).

* **GSM**: Global System of Mobile Communications
GPRS: General Packet Radio Service
ROAD ANGEL Vantage uses GSM and GPRS to facilitate the over-the-air updating of the on-board camera & blackspot database

Road Speed Data

For many years, you have been asking us to help you understand the current legal speed limit of the roads you are driving, regardless of the presence of a safety camera or obvious road signage. However, once we started looking into this we were amazed that there is currently no definitive digital speed limit database for the UK's roads.

With over 250,000 miles of roads, collecting all of this data ourselves would have been an enormous job costing millions of pounds and, much like painting the Forth Bridge, would need constant attention year on year.

For the Road Angel Vantage we've teamed up with NAVTEQ™, owned by Nokia, to use the road speed limit database supplied as part of their navigation product suite. This ensures that we have all the major roads covered and get to hear when a new road or dual carriageway is being built. We realise that the data supplied by NAVTEQ™ is not 100% accurate as local authorities are free to amend national speed limit recommendations as they see fit.

This is why we have created SpeedShare™ which lets you, our customers, suggest new or revised road speed limits at the press of a button.

We have been doing something similar with our Professional Connected customers for the last few years using our CameraShare™ feature as it gives us 10,000's of eyes and ears out there – all happy to tell us when a new safety camera has been installed or a mobile camera van has parked up.

Once you report an anomaly with the road speed database, our dedicated team investigate the piece of road in question and adjust, where appropriate, the speed limit in our master database ready to download to you next time you update.

Over time, we are confident that we will start to develop the only truly accurate picture of legal road speed limits in the UK. Thank you in advance for helping us in this endeavour.

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1. Introduction

ROAD ANGEL Vantage is a standalone GPS camera and accident blackspot locator. It uses the latest global positioning satellite technology (see page 30) to give you audible and visible alerts as you approach hazardous sections of road:

- Accident blackspots (as designated by the Police and Local Authorities)
- Safety cameras
- Mobile roadwork cameras
- Average speed monitoring zones
- Mobile safety vans
- Primary schools, congestion charging zones and unprotected level crossings

With over 250,000 miles of road around the UK, knowing the speed limit is often guesswork, that's why Vantage also has an onboard database of road speed limits. Provided by NAVTEQ™, the road speed information is presented in a circular road speed sign at the bottom left of the device.

By using mobile phone technology, Vantage also allows you to both share the LIVE locations of mobile safety camera vans, and to suggest new or revised road speed limits. CameraShare™ and SpeedShare™ are two unique features to Vantage, and empower you to keep yourself, and other Road Angel users, safe on the roads.

IMPORTANT INFORMATION!

The directors of Road Angel Group Ltd sell ROAD ANGEL Vantage as a road safety enhancement device. Driving within the speed limits at all times and within the limitations of the road condition and your abilities is paramount. The directors of Road Angel Group Ltd take no responsibility for the use of ROAD ANGEL Vantage for purposes other than those stipulated.

Placement
Position your ROAD ANGEL Vantage as low as possible on the screen or dashboard (not suitable for all vehicles – see page 11) so that it does not impair your all-round visibility: we recommend you use either a central position or by the A-post. The device should be mounted securely and all cables must be trained via locations that do not impact any vehicle controls and importantly do not impede the intended operation of any Air Bag zones. Do not leave the device in position when you leave the vehicle unattended for security reasons (see page 8) and because it may suffer heat damage if left in direct sunlight.

MOT Examinations
For vehicles undertaking MOT examinations, Road Angel or any dashboard mounted device should either be removed, or adhere to the rules and regulations on positioning. This normally restricts placement within the swept (windscreen wiper) area of the screen, located as low as practical to minimise potential loss of visibility.

Safety
Road Angel driver safety systems are designed with the sole purpose of making drivers more aware of vehicle speed, the environment and potential hazards ahead. To ensure Road Angel provides this information effectively and without distraction, devices incorporate both visual and verbal instructions on the potential hazard, along with in some cases, colour coded screens to remove the need for the driver to take their eyes from the road ahead.

Under no circumstances, should Road Angel products be operated by the driver whilst the vehicle is in motion. Road Angel devices are aimed at increasing driver awareness and should always be considered secondary to the primary purpose of driving the vehicle.

Unpacking the Box

Empty all the parts out of the box and familiarise yourself with each item. Each pack contains:

ROAD ANGEL Vantage unit

12V/24V cigar socket lead
Connects unit to cigar socket for in-car power and trickle charge.

Windscreen mounting cradle

Mains charger

PC USB cable
Connects unit to PC for manual updating.

Dashboard mounting disk

Mounting arm

Cleansing wipe
(not shown)

Warranty

Your ROAD ANGEL Vantage is guaranteed for one year from the date of purchase from all manufacturing defects that occur with normal use. If your unit fails to perform as specified in these instructions, please visit: **https://www.roadangelgroup.com/warranty.aspx**

Battery Power and Recharging

ROAD ANGEL Vantage is a cable-free device; it can operate independently using power from its internal rechargeable battery for up to 2 hours. You can also power ROAD ANGEL Vantage directly from the cigar socket in your vehicle.

The unit's battery level is indicated by the battery icon on the right side of the display (see page 14). The number of blocks shown indicates the current battery strength. You can charge the battery using either the in-car cigar lighter adapter or the mains charger. There is no need to wait until the battery is completely flat, unlike some rechargeable devices. During the last 30 minutes (approx) of battery life, you will receive 3 separate warnings that the battery is low. The third and final warning is issued moments before the battery is completely drained and the unit shuts down.

IMPORTANT: Before you start to use your new ROAD ANGEL Vantage, we recommend that you fully charge it to preserve battery life and performance. For optimised charging, use the mains charger and ensure that the unit is switched off. It will take longer to recharge the battery if the unit is in use. In addition, the in-car cigar lighter adapter provides a less efficient 'trickle' charge. It may take 24 hours to fully charge a unit in this way compared with only 4 hours using the mains charger.

Controls and Connectors

This section shows the main features of your ROAD ANGEL Vantage.

2. Registration

To get the full benefit of up-to-the-minute safety information, you should put the unit on charge, register online and then wait for a SIM update. As part of this process, you will be prompted to purchase subscriptions to the safety camera & blackspot and road speed limit databases. Having a valid subscription will ensure you have the very latest information on your device.

Charge the unit

With the unit switched off, connect it to the mains charger and charge the internal battery until the charging LED (see page 4) is green (this might take up to 4 hours).

Register your unit online

1. Go to www.roadangelgroup.com
2. Click on the **Registration** link.
3. Follow the on-screen instructions.

As part of this registration process, you will be prompted to purchase subscriptions for the safety camera & blackspot and road speed limit updates.

You can also register by phone: call 01327 855586 (Mon-Fri 9am-5.30pm).

Subscription

Your ROAD ANGEL Vantage uses the award-winning Road Angel camera and accident blackspot database.

Why do you need to subscribe for updates?

With constant additions to the ROAD ANGEL camera and accident blackspot database (1000+ sites per year), the benefit of your ROAD ANGEL Vantage and the protection it provides will be dramatically reduced if you fail to remain subscribed. In this instance, your automatic updates will be disabled.

It is critical to the operation of your ROAD ANGEL Vantage that your unit

updates regularly. In areas of low GPRS coverage, manual updates may be necessary (see page 29).

How do you subscribe?

You will be asked to complete an online form after registration to set up your debit/credit card subscription payments. Alternatively, you can telephone our subscriptions team on 01327 855586.

You can choose a 1 or 3 year subscription plan. Payment is taken immediately.

Please be aware that all subscriptions are non-refundable and non-transferable.

How long will it take to activate your subscription?

Following the purchase of your subscriptions, you will start receiving automatic updates to the safety camera & blackspot database, and be able to download updates to the road speed limit database via PC, within 24 hours (following SIM activation by Orange – see below).

The SIM update

1. Switch on your ROAD ANGEL Vantage by pressing the button on the top of the unit. Place the unit in a location where there is a GSM signal as indicated by the icon on the right of the screen.

2. When your unit has been registered, it will receive a SIM update from Orange within the next 24 hours (as long as the unit is on and has a GSM signal). The unit will then restart.
3. When the unit has completed the SIM update, the bars by the GSM/GPRS icon turn green to indicate GPRS connectivity.

4. Your unit will now perform a database update as indicated by the 'communicating' icon:

3. Putting It All Together

We recommend that you install your ROAD ANGEL Vantage on the dashboard of your vehicle. ROAD ANGEL Vantage has an internal high sensitivity GPS antenna and requires a clear view of the sky to communicate with GPS satellites.

ROAD ANGEL Vantage is supplied with a bracket and clamp, designed for secure mounting and quick release, to attach the unit to the windscreen or dashboard.

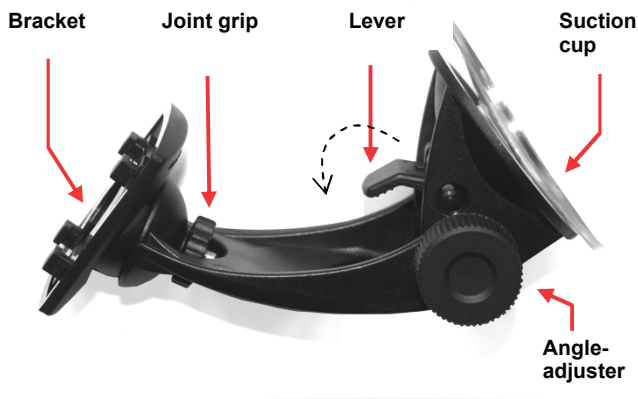
Security

Owing to the high number of thefts, we strongly recommend that you remove your ROAD ANGEL Vantage and its bracket from view when you leave your vehicle. Security can also be increased by cleaning any marks from your windscreen.

Please contact Road Angel Group Ltd if your unit is stolen or lost. Each ROAD ANGEL Vantage is identified by a unique serial number on the back. We can use this number to block the unit from being updated. Any attempt to do so removes all the data from the device and renders it useless. We can also detect any attempt to re-register it. This has frequently resulted in the safe return of a ROAD ANGEL Vantage to its rightful owner.

1. Preparing the mounting arm

Loosen the angle adjuster and joint grip. Adjust the arm so that the bracket is vertical when the suction cup is held against your vehicle's windscreen.



2. Attaching the mounting arm to the bracket

Connect the mounting arm so that the four clips sit in the slots on the cradle. Slide upwards until it clicks into place.

3. Positioning in your car

On the windscreen

1. Hold the suction cup against the windscreen. For maximum adhesion, it may help to dampen the suction cup.
2. Pull the lever upwards to apply suction.
3. Adjust the angle and position of the unit so that you have a clear view of the screen when driving.
4. Tighten the joint grip to lock in position.

On the dashboard

ROAD ANGEL Vantage is also supplied with a plastic disk, backed with an adhesive pad, allowing you to mount the unit directly on the dashboard.

This option is not suitable for all vehicles: ensure that your ROAD ANGEL Vantage is not located close to any heater vents.

1. Using the supplied wipe, clean the area of your dashboard where you want to attach the mounting disk. Allow the area to dry.
2. Peel the backing from the disk's adhesive pad.
3. Press the disk firmly onto the dashboard.
4. Leave the disk for 24 hours so the adhesive can set properly.
5. Press the suction cup onto the disk. For maximum adhesion, it may help to dampen the suction cup.
6. Press the lever downwards to apply suction.
7. Adjust the angle and position of the unit so that you have a clear view of the screen when driving.
8. Tighten the joint grip to lock in position.

4. Attaching the power lead

1. Take the power lead, and plug it into the USB port on the left of the unit.
2. Route the power cable to the cigar lighter socket. Ensure that it does not interfere with any of the vehicle's controls or airbag modules. If you use your cigar lighter socket for any other devices, a dual adaptor may be used.

You are now ready to use the unit for the first time.

? Where should I put my ROAD ANGEL Vantage?

ROAD ANGEL Vantage has a high sensitivity GPS antenna and requires a clear view of the sky to receive information from GPS satellites. We highly recommend that ROAD ANGEL Vantage is positioned in the centre of the front windscreen, low down, just above the dashboard (see page 2). If screen glare is a problem in this position, try installing the unit beside the driver's "A-pillar". Check that the GPS reception operates correctly in this position.

? My car has a UV/solar reflective/heated windscreen

UV/solar reflective screens block GPS signals from entering the vehicle and may affect the operation of your ROAD ANGEL Vantage. Please allow extra time for your unit to acquire its position. Heated screens can also affect GPS signal strength.

? Can I hardwire the unit?

No, you cannot hardwire ROAD ANGEL Vantage into your vehicle.

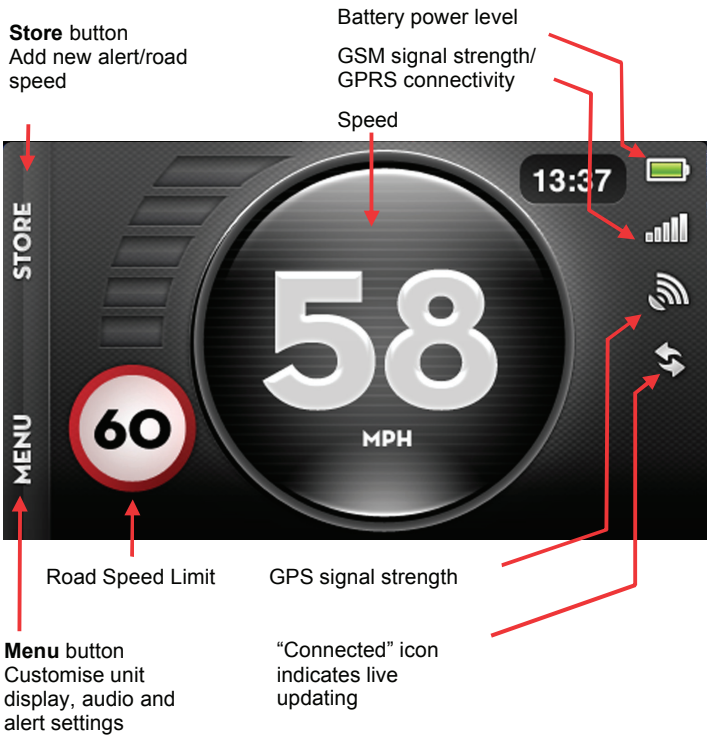
4. Getting Started

Switching On for the First Time

1. Find a location outside with a clear view of the sky (away from obstacles such as tall buildings and overhanging trees – these may delay or prevent satellite acquisition).
2. Switch on the ROAD ANGEL Vantage by pressing the button on the top of the unit for about two seconds.
3. If you skipped registration (see page 6) your ROAD ANGEL Vantage will not have updated its database and the screen will show the registration prompt. Press the **Dismiss** button to continue (please register as soon as possible).
4. ROAD ANGEL Vantage now tries to identify its location by acquiring information from GPS satellites. This may take a few minutes. During the procedure, the unit displays the following screen:

5. With further use, the unit should establish your location within 1-2 minutes of being switched on.
6. When ROAD ANGEL Vantage has established its position, the display shows your speed (0 if you are stationary) and the speed limit for your current location.

Your unit is now ready for use. You can start driving and ROAD ANGEL Vantage will show your speed and the road's speed limit.



If you are approaching a known hazard, ROAD ANGEL Vantage will alert you to the type and proximity of the hazard (see page 15).

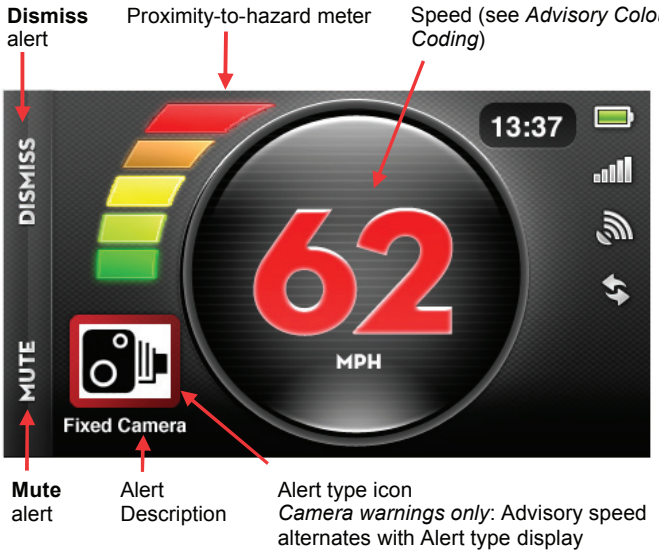
5. Alerts

Your ROAD ANGEL Vantage alerts you to:

- Fixed, temporary or average camera locations
- Mobile safety van locations (with the 'Live Van' facility)
- Hazard locations: accident blackspots, schools, or congestion charging zones.

Speech warnings will tell you the type of hazard followed by an audible tone that increases in frequency with your proximity to the location.

A proximity-to-hazard meter increases from 1 to 5 bars as you get closer to the danger zone. If it is a fixed, temporary or average speed camera location, the unit alerts you to the advisory speed limit.



You can customize the way your ROAD ANGEL Vantage alerts you to road dangers: see page 18.

USE THE ADVISORY SPEED LIMIT FOR GUIDANCE ONLY.

Any road speed limit can change without prior notice or consultation, for example, in temporary road works. It remains important for drivers to constantly re-evaluate and be aware of the road limit at all times. Speed limits may vary according to vehicle type and class.

All Road Angel products are designed to provide the driver with a high visibility speedometer reading within your field of vision. Although GPS speedometers are known to be highly accurate at steady speed, atmospheric conditions and hindered skyward visibility (e.g. tunnels) can adversely affect accuracy. In all situations, drivers should always refer to the vehicle's speedometer, which is known to fall within approved guidelines of accuracy in all situations, and be aware of the applicable speed limit.

Advisory Colour Coding

In addition to the audio warnings and alert-type icons, your ROAD ANGEL Vantage also changes the colour of the speed display to provide at-a-glance information about the road ahead.

White/Unchanged	You are approaching a fixed, temporary or average speed camera location but travelling *below* the advisory speed limit.
Red	You are approaching a fixed, temporary, 'live' mobile or average speed camera location travelling *above* the advisory limit. If your speed subsequently drops below the advisory speed limit, the speed is displayed in the normal green colour.
Orange	You are approaching a mobile van location.
Blue	You are approaching a hazard for which an advisory speed is not available: accident blackspot, unprotected level crossing or a Primary school.

Audio and Speech Warnings

You can stop audio and speech warnings temporarily when you are in a danger zone, or permanently during normal use. To temporarily mute audio output when in a danger zone tap on the **Mute** button on the display.

When you have passed out of the danger zone, ROAD ANGEL Vantage restores audio output. When you temporarily mute an alert, the following icon will display:

To customise audio and speech alerts for each type of danger zone, adjust the appropriate settings in the Alerts menu (see page 19).

6. Customising your ROAD ANGEL Vantage

You can change the way ROAD ANGEL Vantage works by adjusting its menu settings. During normal operation, click on the **MENU** button on the left side of the screen. This is not available during an alert.

Alerts	Enable or disable optional alert types.
Audio	Choose how ROAD ANGEL Vantage uses audio prompts to alert you to road dangers.
Distances	Set the distance at which ROAD ANGEL Vantage commences its alerts.
Display	Adjust display settings: screen contrast and colours, speed units and time setting.
Unit Data	View technical information about your ROAD ANGEL Vantage: its serial number, firmware version, subscription expiry date and the date of the most recent database update.
Reset	Restore the factory default settings.

After several seconds of inactivity on a menu screen, the display will return to normal mode.

Alerts

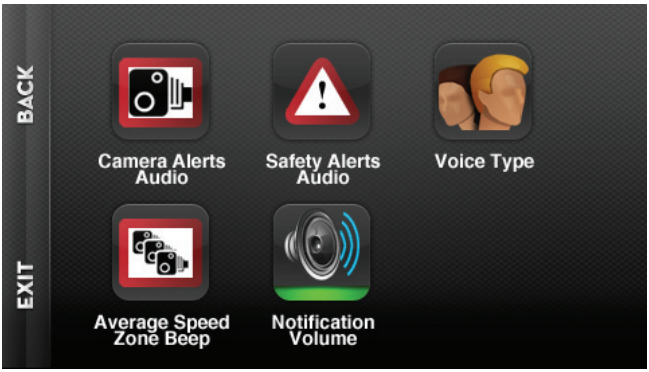
Settings in the Alerts menu determine how ROAD ANGEL Vantage warns you about road hazards.

Property	Details	Options (factory setting in bold)
Blackspots	Switch Blackspot alerts on or off.	Off...**On**
Camera Vans	Switch mobile van alerts on or off.	Off...**On**
Congestion Zones	Switch Congestion zone entry warnings on or off.	Off...**On**
Fatigue Alerts	Switch the fatigue timer alert on or off.	**Off**...On
School Zones	Switch School alerts on or off.	**Off**...On
Overspeed Alerts	Set your own maximum speed: the unit will alert you if you exceed it.	**Off**...25 – 70

NOTE. If a setting is switched ON, a Green bar indicator will display at the bottom of the appropriate icon - as shown in the above illustration. If the setting is switched off, the bar will display as grey.

Audio

Settings in the Audio menu determine how ROAD ANGEL Vantage uses audio prompts to warn you about road hazards.



Property	Details	Options (factory setting in bold)
Camera Alerts Audio	Change the sound level of safety camera related warnings.	Off...100% (**80%**)
Safety Alerts Audio	Change the sound level for Blackspot, School and Congestion related warnings.	Off...100% (**80%**)
Voice Type	Choose male or female voice for alerts	**Male**...Female
Average Speed Zone Beep	*Normal*: regular beep heard in zone *Auto*: beeps only if speed above limit	**Normal**...Auto
Notification Volume	Volume for status beeps: low battery, loss of GPS, etc	Off...100% (**80%**)

Distances

Alerts are triggered at a set distance from the location of the hazard. You can set different thresholds for Mobile Van locations and other alerts. In addition, you can double the alert distance for all hazards (except Mobile Van locations) when you are travelling over 50mph.

Property	Details	**Options** (factory setting in bold)
General Alerts Distance	Adjusts the warning range as you approach danger zones.	**250**...500...1000m
Camera Van Alert Distance	Adjusts the warning range as you approach Mobile Van alerts.	**500**...750...1000m
Speed Sensitive Distance	Doubles the *General Alert Distance* at 50MPH and above.	**Off**...On

Display

Using this menu, you can change the appearance of the display: the backlight level in day mode, the screen colour scheme and the choice of speed units. You can also adjust the clock to take account of daylight saving time and set power options.

Property	Details	Options (factory setting in bold)
Theme Colours	Choose colour scheme of display.	**White**...Green...Orange... Blue...Red
Backlight	Adjust the contrast of the ROAD ANGEL Vantage display.	0...100% (**100%**)
Night Mode	*On*: Change the display's colour scheme for optimum night viewing	On...**Off**
Speed Units	Display speed as miles per hour or kilometres per hour.	**MPH**...KMH
Time Adjust	Change time offset to account for daylight saving time.	± 12 hours in 1 hour intervals. (**+0.00**)

Unit Data

This option provides technical information about your ROAD ANGEL Vantage: its serial number and firmware version and the date of the most recent database update.

Reset

Select this option to restore to unit to its original factory menu settings. This will not affect your personal alerts.

If you encounter a software problem and the unit freezes, press the Reset button on the back of the unit. This may be obscured by the mounting bracket.

7. Adding and Deleting Alerts

Road Angel Group Ltd is constantly updating the central database of danger zones. You can be of great value to the users of other GPRS-enabled ROAD ANGEL devices by setting 'Live Van' and other alerts. Also, by submitting new zones for verification, you can contribute to the safety of the whole community of ROAD ANGEL device owners.

PLEASE ONLY ADD/DELETE ALERTS WHEN IT IS SAFE TO DO SO.

Adding New Locations

You may add new FIXED CAMERA, MOBILE CAMERA, CAMERA VAN, AVERAGE ZONE, BLACKSPOT and SCHOOL locations to your ROAD ANGEL Vantage database.

In addition, you can also set a new road speed limit (the current limit may be incorrect due to road works, for example).

When your ROAD ANGEL Vantage updates, these new locations will also be downloaded to the central database, and can then be verified by the ROAD ANGEL team for possible inclusion in future updates.

To add a location or new road speed:

1. Tap on the **Store** button. This will confirm your location and heading. If you intend to add an Average Speed zone to the database, ROAD ANGEL Vantage will take this position as the start of the zone.

ROAD ANGEL Vantage needs to be travelling in excess of 4 MPH to calculate the heading for a location.

2. Choose from the two options:

Storing a New Alert

Tap on the **Store New Alert** button.

1. Select the alert type from the following options:
   - FIXED CAMERA
   - MOBILE CAMERA
   - CAMERA VAN
   - AVERAGE ZONE
   - BLACKSPOT
   - SCHOOL ZONE

2. Select the speed limit for the alert from the following options: 20,30,40,50,60,70 or ? (for unknown) mph.

3. If you are recording an **Average Zone**, wait until you are at the exit of the zone before selecting a speed limit.

4. As soon as you select the speed limit the alert is stored on your device for future use.

When your ROAD ANGEL Vantage updates, the location will be downloaded to the central database to be verified by the ROAD ANGEL team for possible inclusion in future updates.

Storing a New Road Speed

Having tapped on the **Store** button (see page **Error! Bookmark not defined.**), now tap on the **Store New Road Speed** button.

1. Select the speed limit for the alert from the following options: 20,30,40,50,60,70 mph.

2. As soon as you select the speed limit the new road speed is stored.

When your ROAD ANGEL Vantage updates, the road speed will be downloaded to the central database to be verified by the ROAD ANGEL team for possible inclusion in future updates.

Dismissing or Deleting Alerts

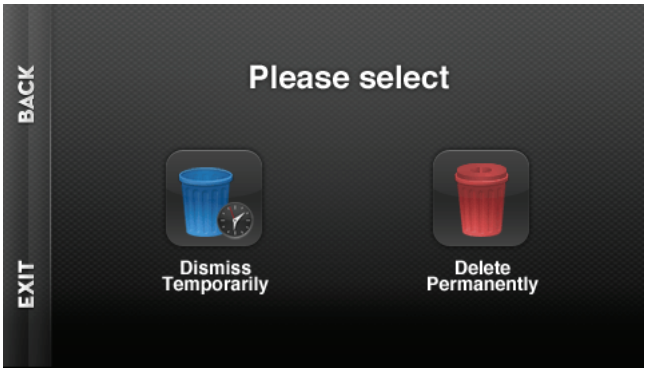
You can dismiss or even permanently delete any of the locations stored in your unit's database.

If you dismiss an alert, it stops the visual and audio warnings on that occasion only. The alert will remain in your unit's database and your ROAD ANGEL Vantage will continue to alert you to the location when you drive past it in the future.

If you delete the alert, you will no longer receive warnings for the location. However, there are many good reasons why you might want to delete an alert: it might be incorrect or perhaps it is on the road where you live, for example.

To dismiss or delete a location:

1. Tap on the **Dismiss** button.



2. Choose from the two options:
   - **Dismiss Temporarily**
   - **Delete Permanently**
3. If you choose to delete the alert, you will be prompted to confirm the action.

When a location has been deleted it can only be restored by re-entering the location (see Adding New Locations *on page* 24*) or by requesting a factory reset. If you need a factory reset, please contact the ROAD ANGEL support team. You will need to connect your unit to a PC with an internet connection. Please have your unit's serial number and your contact details ready before you call.* ***Note: A factory reset deletes all your personally stored locations.***

8. Updating the Database

The ROAD ANGEL Database

ROAD ANGEL Vantage uses a database of Police, Local Authority and Ministry of Transport designated danger spots, including accident blackspots and safety camera locations, primary schools and congestion charging zones. Using the latest Global Positioning Satellite (GPS) technology, ROAD ANGEL Vantage compares your position with known danger spot locations and gives you an audible and visual warning as you approach them.

It is critical to the accurate operation of your ROAD ANGEL Vantage that your unit is regularly updated to maintain the very latest data. To qualify for database updates:

1. **Register your ROAD ANGEL Vantage with Road Angel Group Ltd. You cannot receive updates until you have registered (see page 6).**
2. **Purchase a valid subscription package.**

Automatic Updates by GPRS

With your unit registered and a valid subscription in place, your unit will receive updates automatically by GPRS, the wireless data service available over the GSM network. The updating icon appears if an update is taking place (see page 14).

If you live in an area with low GPRS coverage and cannot receive automatic updates, you can also update your ROAD ANGEL Vantage manually over the Internet using your PC. In this case, we recommend that you update your ROAD ANGEL Vantage fortnightly, as safety camera locations are constantly changing. If you are a high mileage motorist, using unfamiliar roads, you may want to update your database weekly. You should also update the database before you set off on a long trip.

You can check the date of your last update on the Unit Data page (see page 23).

Updating by PC

You can update your unit from a PC with internet access running Microsoft Windows 2000, XP or Vista (we do not support Apple Macs).

Visit www.roadangelgroup.com and click on the *Customer Support* link

Download and install the update software for your ROAD ANGEL Vantage. Full instructions regarding the installation and use of this software are available on the website.

Updating by PC/ActiveSync

To update your ROAD ANGEL Vantage using your PC, you will need:

- A PC with internet access running Microsoft Windows XP, Vista or 7 (we do not support Apple Macs or Windows emulators)
- Internet Explorer version 5.5 or above
- Microsoft ActiveSync 3.8 or above, or Windows Mobile Device Center

To set up your Road Angel Vantage with ActiveSync, please visit our support website at **www.roadangelgroup.com**, and click on the **Support** link at the top of the page.

9. Background Information

About Global Positioning Satellites (GPS)

Operational since 1990, 24 satellites orbit the earth at a height of 11,000 miles. At any given point on the globe, at least 4 satellites are in view at any one time. Using sophisticated aerials and triangulation techniques, units such as ROAD ANGEL Vantage are able to compute your position to within 5-10m.

ROAD ANGEL Vantage may lose the GPS satellite signal temporarily owing to tunnels, tall buildings, bridges, dense foliage or adverse weather conditions. When you are clear of the obstruction, ROAD ANGEL Vantage should re-acquire satellite signals in a few seconds.

Our Camera Database

Road Angel is widely recognised as having the UK's most accurate and comprehensive blackspot & safety camera database, continually maintained by our dedicated camera team and ongoing investment to ensure the data is as accurate as possible.

CameraShare™

Road Angel's Connected products allow you to share LIVE van locations with other members of the Road Angel community, at a press of a single button. If a member of the Road Angel Community drives past the same LIVE location within the following hours, they will get a 'Live Camera Van' alert.

Speed Cameras and Hazards

Gatso
The most common type of speed camera – used in fixed positions mounted on poles at the roadside. Measures vehicle speed using radar and, if the speed limit has been exceeded, photographs the rear of the vehicle. Uses a flash unit inside the camera cabinet or mounted on a gantry to illuminate the offending vehicle's rear number plate. ROAD ANGEL Vantage relies on up-to-date database information for detection.

SPECS (Average speed)
Takes a photo of your vehicle at the 'start' point and then another a set distance further down the road. If your average speed is greater than the speed limit between these two cameras you are automatically prosecuted. ROAD ANGEL Vantage relies on up-to-date database information for detection.

Watchman
Measures vehicle speed and, if the limit is exceeded, takes a photo of the rear of the vehicle. Can be accessed remotely allowing operators to download live video, stored images or data. ROAD ANGEL Vantage relies on up-to-date database information for detection.

Speedcurb
Measures the speed of vehicles in the monitored section of road using pressure sensors in the road surface. If the speed limit has been exceeded, it takes a photograph of the rear of the vehicle. Uses a flash module for night-time operation. ROAD ANGEL Vantage relies on up-to-date database information for detection.

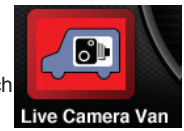
Truvelo
A mainly forward-facing camera taking pictures using an infrared flash gun. A speeding driver will not see the flash although it will result in a clear picture of the vehicle and its occupants. The system measures a passing vehicle's speed by timing its transit across two strips on the road.

Traffiphot
Uses pressure sensors in the road (similar to Speedmaster – see below) to measure vehicle speed and photographs the rear of any speeding vehicle. Not to be confused with red-light cameras. ROAD ANGEL Vantage relies on up-to-date database information for detection.

DS2
Also known as SpeedMaster, Autovision or Autovision 2. This is a semi-permanent (fixed location but only used part-time), system that uses sensors, often visible as three strips, 1m apart, to measure vehicle speed. Connects to a camera for evidence of any offence. May operate independently or be attended by a camera van. ROAD ANGEL Vantage relies on up-to-date database information for detection.

Blackspot
A specific location, identified by the police and local authorities, where a high number of accidents have occurred e.g. a difficult junction. Blackspots are often targeted by mobile speed enforcement units. ROAD ANGEL Vantage relies on up-to-date database information to identify blackspots.

Mobile Safety Vans
Operators generally publish the locations where their mobile safety camera vans will be sited 1-2 weeks in advance. An updated ROAD ANGEL Vantage has the latest mobile safety van information. In addition, the SET LIVE VAN feature allows ROAD ANGEL Vantage users to alert each other to mobile vans.



Congestion
Drivers must pay in advance or on the day of travel to enter the designated zone during the scheme's hours of operation. There are substantial penalties if you do not pay the congestion charge.

Primary Schools
You can set up ROAD ANGEL Vantage to alert you whenever you are within 250 metres of a primary school.

Unprotected Railway Crossings
Alerts you to railway crossings with no barrier.

Fatigue Timer Warning
The Highway Code recommends a minimum break of at least 15 minutes for every two hours of driving. ROAD ANGEL Vantage alerts you when you've been driving for two hours.

Overspeed
Set your own speed limit and let ROAD ANGEL Vantage warn you if you exceed it.

10. Diagnostics

Tap on the **Unit Data** page (see page 23) to access the diagnostics tool. Use this to identify possible causes of any problems with your ROAD ANGEL Vantage. A number of messages will appear explaining any issues or problems with your device.

Road Angel Group Ltd has made every effort to ensure that all the information contained in this manual is accurate and reliable. However, the information is subject to change without notice.

Road Angel Group Ltd assumes no responsibility for any damage or injury resulting from the use of this product.